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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,612	02/18/2004	James G. Archuleta JR.	0063.03	2692
25712	7590	03/09/2005	EXAMINER	
USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER NATIONAL CTR FOR AGRICULTURAL UTILIZATION RESEARCH 1815 N. UNIVERSITY STREET PEORIA, IL 61604			BATSON, VICTOR D	
			ART UNIT	PAPER NUMBER
			3671	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/781,612	ARCHULETA ET AL.
	Examiner	Art Unit
	Victor Batson	3671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 13 December 2004.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Keigley (5,515,625).

Keigley discloses a combination grapple rake and subsoiling implement including a rake 50, shank sockets 160, subsoiling shanks 164 and removable fasteners 178. Given the structure of Keigley, the claimed method steps would inherently be performed when using the device as disclosed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5,7,15-18,20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Risch (4,519,739) in view of Fryrear (4,041,624).

Risch discloses a subsoiling implement including a frame 44, and a grapple rake comprising a thumb 20a. Risch however lacks at least one shank socket.

Fryrear teaches that it is known in the excavation art for a subsoiling implement to include two shank sockets adapted to receive two shanks 38, 62 as shown in figures

2 & 3. Fryrear teaches that it is known to use ripper assemblies with an excavating implement similar to that of Risch, to allow the implement to perform a variety of applications including a ripping function to aid in penetrating hard or rock-filled earth.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Risch, by providing ripper assemblies similar to that of Fryrear, to allow the implement to be used to perform additional functions such as ripping hard or rock-filled earth as taught by Fryrear.

Concerning claims 4 & 20, one of the teeth 40 of Fryrear is considered a coulter blade.

Claims 6,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Risch (4,519,739) in view of Fryrear (4,041,624) as applied to claims 1-5,7,15-20 above, and further in view of Rogers (3,880,242).

Risch as modified by Fryrear discloses a subsoiling implement as described previously, but lacks the subsoiling shank comprising wings.

Rogers teaches that it is known in the art for wings to be attached to a subsoiling shank to allow the ripper plow to be used as a stubble mulcher (abstract, figure 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Risch as modified by Fryrear, by adding a sweep attachment having wings to allow the implement to be used as a stubble mulcher as taught by Rogers.

Response to Arguments

Applicant's arguments with respect to claims 1-7,15-20 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments with respect to claims 8-14 have been fully considered but they are not persuasive. Applicant argues that the implement of Keigley identified as a grapple rake, is not a grapple rake as required by the claims. Applicant's arguments however are more limiting than the claims themselves. The examiner notes that applicant has not set forth any particular structure or method steps that would define over the rake of Keigley.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 3671

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor Batson whose telephone number is (703) 305-6356. The examiner can normally be reached on Monday through Friday (except Wednesday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Will can be reached on (703) 308-3870. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



March 6, 2005

Victor Batson
Primary Examiner
Art Unit 3671